(b)
$$BCl_3 + SiHCl_3 \xrightarrow{-n \text{ Me}_3 SiCl} \xrightarrow{Intermediate compounds} \xrightarrow{-n \text{ HMDZ} -n \text{ Me}_3 SiCl} Polyborosilazane$$

Figure 1.

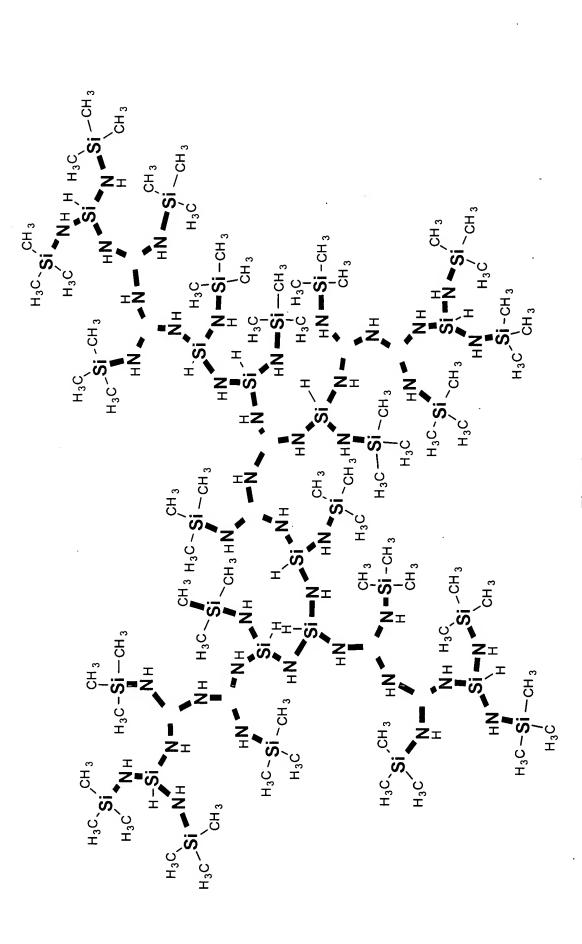


Figure 2

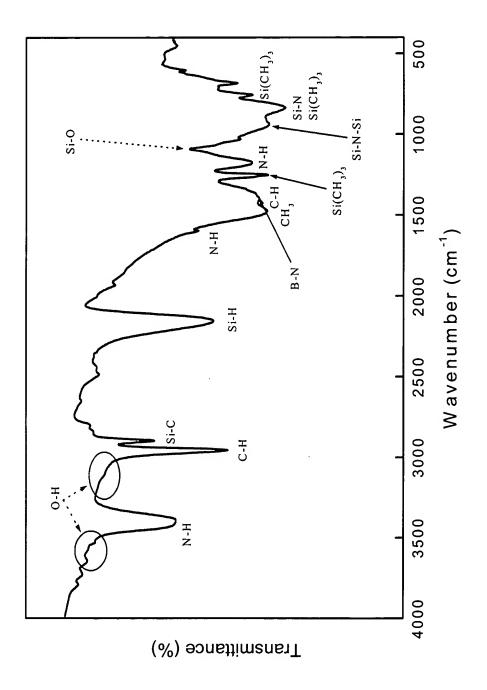


Figure 3.

Transmittance (%)

Figure 4.

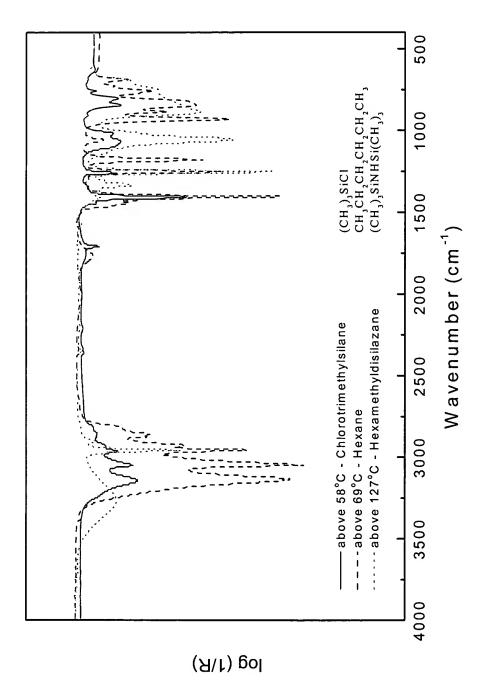


Figure 5.

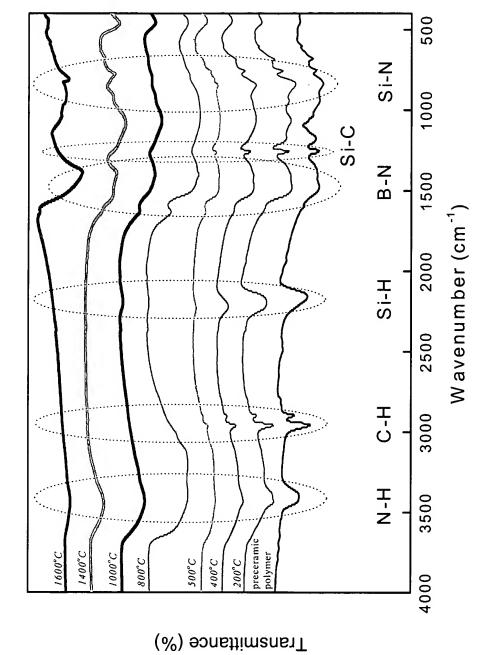


Figure 6.

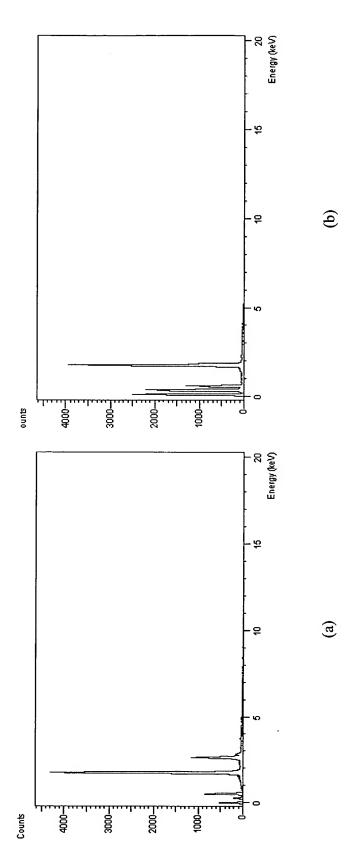


Figure 7.

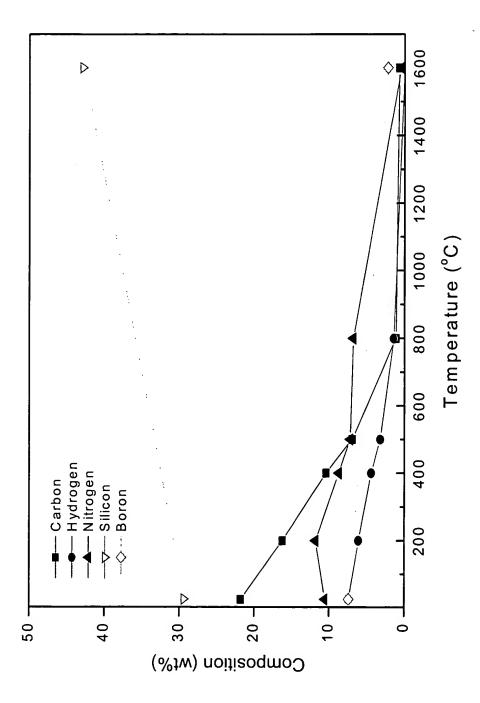


Figure 8.

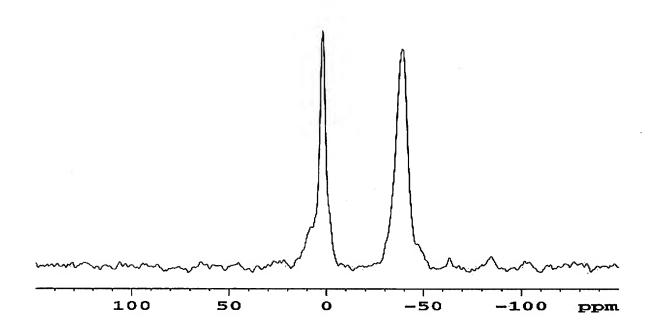


Figure 9.

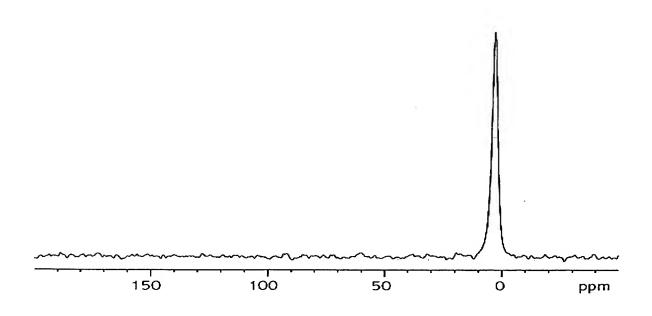


Figure 10.

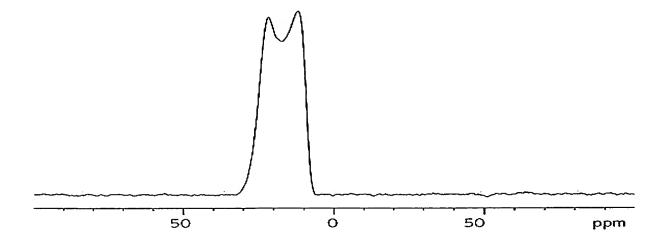


Figure 11.

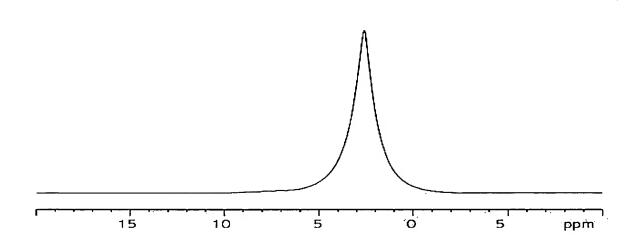


Figure 12.

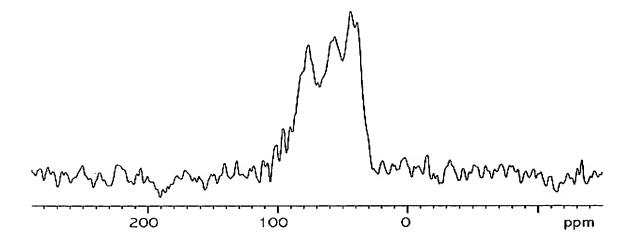


Figure 13.

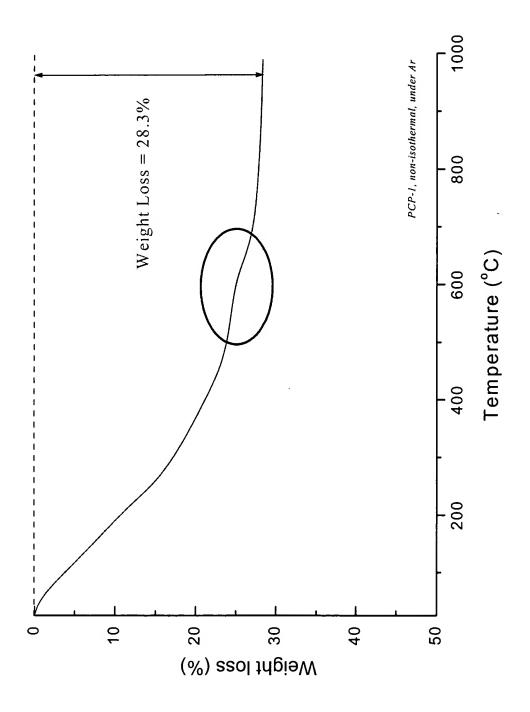


Figure 14.

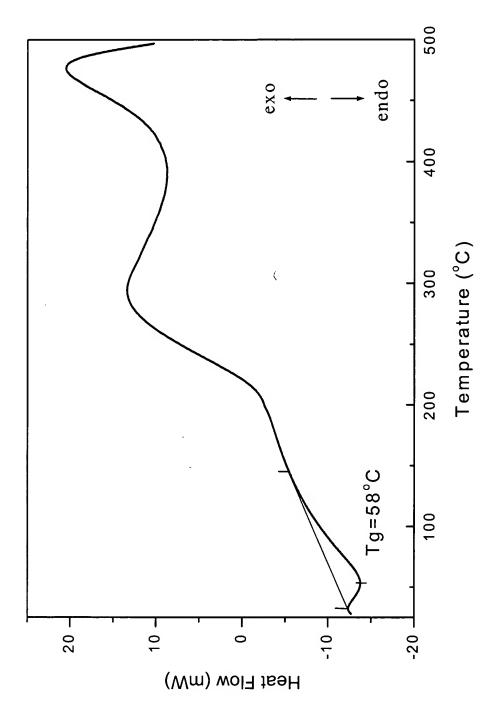


Figure 15.

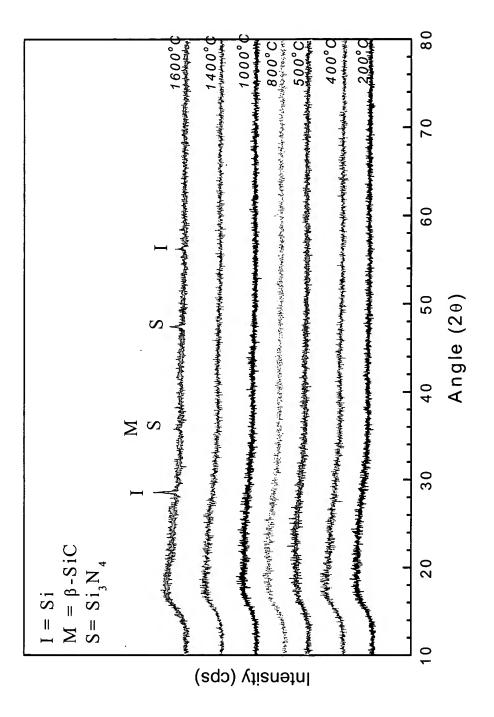


Figure 16.